

**Amendment and Response**

Applicant: Ian Colloff et al.

Serial No.: 09/977,604

Filed: October 21, 2001

Docket No.: 10011311-1/A310.257.101

Title: METHOD AND APPARATUS FOR INPUT/OUTPUT PORT MIRRORING FOR NETWORKING  
SYSTEM BRING-UP AND DEBUG

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**IN THE CLAIMS**

Please amend claims 2, 3, 19, 20, and 25 as follows:

1. (Cancelled)
2. (Currently Amended) A networking system, comprising:
  - a plurality of ports, each ~~adapted~~configured to send and receive data;
  - a switch core having a first channel configured to receive a logical input flow data from each of the plurality of ports, and having a second channel configured to receive a raw input flow data from each of the plurality of ports, wherein each logical input flow data is carried by its corresponding raw input flow data;
  - a plurality of port mirrors selectable from the plurality of ports, wherein each of the plurality of port mirrors is configured to provide a duplicate copy of at least one of the logical input flow data and the raw input flow data available at a selected port; and
  - wherein each of the plurality of ports includes a switch ~~adapted~~configured to receive an output of the switch core and configured to separate the logical input flow data from the raw input flow data.
3. (Currently Amended) The networking system of claim 2, wherein each of the plurality of ports comprises:
  - an ingress channel ~~adapted~~configured to send input flow data to the switch core;
  - an egress channel ~~adapted~~configured to receive output flow data from the switch core; and
  - a multiplexer ~~adapted~~configured to provide raw input flow to at least one of the switch core and the egress channel.
4. (Previously Presented) The networking system of claim 3, wherein the switch core comprises a cross bar switch.
5. (Previously Presented) The networking system of claim 3, wherein the switch core comprises a semiconductor chip.

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6. (Previously Presented) The network system of claim 3, wherein the switch core comprises a computer-readable medium having computer-executable instructions.

7. (Previously Presented) The networking system of claim 3, comprising a scheduling circuit, wherein the scheduling circuit is configured to establish a set of connections for each of a plurality of output nodes allowing data to be passed from at least one of the first channel and the second channel over each of the established set of connections.

8.-17. (Cancelled)

18. (Previously Presented) The networking system of claim 2, wherein the switch core is configured to provide multicast connections between an input node and a plurality of output nodes.

19. (Currently Amended) The networking system of claim 3, comprising:  
an input queue ~~adapted~~ configured to hold a plurality of logical traffic units of the logical input flow data prior to switching at the switch core.

20. (Currently Amended) A networking system comprising:  
means for receiving and sending input flow data;  
means for switching at least one of a raw input flow data and a logical input flow data; and  
means for producing a duplicate copy of at least one of the logical input flow data and the raw input flow data available at the means for receiving and sending input flow data.

21. (Previously Presented) The networking system of claim 20 comprising:  
means for holding a plurality of logical traffic units of the logical input flow data prior to switching at the switch core.

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22. (Previously Presented) The networking system of claim 21, wherein the means for receiving and sending data includes a switch configured to receive an output of the switch core and separate the logical input flow data from the raw input flow data.

23. (Previously Presented) The networking system of claim 22, wherein the means for switching comprises a means for providing multicast connections between an input node and a plurality of output nodes.

24. (Previously Presented) The networking system of claim 22, wherein the means for switching the logical input flow data and the raw input flow data comprises a cross bar switch.

25. (Currently Amended) A method of operation of a networking system, the method comprising:

sending and receiving data at a plurality of ports;

receiving a logical input flow data at a first channel of a switch core and a raw input flow data at a second channel of the switch core from each of the plurality of ports;

switching the logical input flow data received at the first channel and the raw input flow data received at the second channel using the switch core;

selecting a plurality of port mirrors from the plurality of ports; ~~and~~

generating a duplicate copy of at least one of the logical input flow data and the raw input flow data; and

providing the duplicate copy at the selected plurality of port mirrors.

26. (Previously Presented) The method of claim 25 comprising:

debugging the networking system using the duplicate copy provided at the selected plurality of port mirrors.

27. (Previously Presented) The method of claim 26, wherein debugging the networking system includes using a test agent configured to communicate to the plurality of ports.

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28. (Previously Presented) The method of claim 25 comprising:  
separating the logical flow data from the raw input flow data using a switch provided at each of the plurality of ports.
29. (Previously Presented) The method of claim 28 comprising:  
queuing a plurality of logical traffic units of the logical input flow data prior to switching at the switch core.
30. (Previously Presented) The method of claim 29, wherein switching data received at the first channel and the second channel includes using a cross bar switch.
31. (Previously Presented) The method of claim 30, wherein the cross bar switch is configured to provide multicast connections between an input node and a plurality of output nodes.